



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/774,176

DATE: 09/16/2004

TIME: 12:15:26

Input Set : N:\Crf3\RULE60\10774176.raw

Output Set: N:\CRF4\09162004\J774176.raw

1 <110> APPLICANT: CARROLL, MILES WILLIAM  
 2 MYERS, KEVIN ALAN  
 3 <120> TITLE OF INVENTION: POLYPEPTIDE  
 4 <130> FILE REFERENCE: 078883/0120  
 5 <140> CURRENT APPLICATION NUMBER: US/10/774,176  
 6 <141> CURRENT FILING DATE: 2004-02-06  
 7 <150> PRIOR APPLICATION NUMBER: US/09/533,798  
 8 <151> PRIOR FILING DATE: 2000-03-24  
 9 <150> PRIOR APPLICATION NUMBER: 60/126,187  
 10 <151> PRIOR FILING DATE: 1999-03-25  
 11 <150> PRIOR APPLICATION NUMBER: 60/126,188  
 12 <151> PRIOR FILING DATE: 1999-03-25  
 13 <150> PRIOR APPLICATION NUMBER: GB 9825303.2  
 14 <151> PRIOR FILING DATE: 1998-11-18  
 15 <150> PRIOR APPLICATION NUMBER: GB 9901739.4  
 16 <151> PRIOR FILING DATE: 1999-01-27  
 17 <150> PRIOR APPLICATION NUMBER: GB 9917995.4  
 18 <151> PRIOR FILING DATE: 1999-07-30  
 19 <160> NUMBER OF SEQ ID NOS: 27  
 20 <170> SOFTWARE: PatentIn version 2.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1263  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1

27	atgcctgggg	ggtgctcccg	gggccccgcc	gccggggacg	ggcgtctgcg	gctggcgcg	60
28	ctagcgtg	tactcctggg	ctgggtctcc	tcgtcttctc	ccacctcttc	ggcatcctcc	120
29	ttctctct	cggcgccgtt	cctggtctcc	gccgtgtccg	cccagccccc	gctgccggac	180
30	cagtgcgccg	cgtgtgcga	gtgctccgag	gcagcgcgca	cagtcaagt	cgtaaccgc	240
31	aatctgaccg	aggtgccac	ggacctgcc	gcctacgtgc	gcaacctctt	ccttaccggc	300
32	aaccagctgg	ccgtgctccc	tgccggcgcc	ttcgcccgcc	ggccgcccgt	ggcggagctg	360
33	gccgcgctca	acctcagcgg	cagccgcctg	gacgaggtgc	gcgcggggcg	cttcgagcat	420
34	ctgccagcc	tgcgccagct	cgacctcagc	cacaaccac	tggccgacct	cagtcccttc	480
35	gctttctcgg	gcagcaatgc	cagcgtctcg	gccccagtc	cccttggtga	actgatcctg	540
36	aaccacatcg	tgccccctga	agatgagcgg	cagaaccgga	gcttcgaggg	catggtggtg	600
37	gcggccctgc	tgccggggcg	tgcactgcag	gggctccgcc	gcttgagct	ggccagcaac	660
38	cacttccttt	acctgcccg	ggatgtgctg	gcccactgc	ccagcctcag	gcacctggac	720
39	ttaagtaata	attcgctggt	gagcctgacc	tacgtgtcct	tcgcgaacct	gacacatcta	780
40	gaaagcctcc	acctggagga	caatgccctc	aagtccttc	acaatggcac	cctggctgag	840
41	ttgcaaggtc	taccacacat	tagggttttc	ctggacaaca	atccctgggt	ctgcgactgc	900
42	cacatggcag	acatggtgac	ctggctcaag	gaaacagagg	tagtgaggg	caaagaccgg	960
43	ctcacctgtg	catatccgga	aaaaatgagg	aatcggtcc	tcttggaact	caacagtgt	1020
44	gacctggact	gtgacctgat	tcttccccca	tccctgcaaa	cctcttatgt	cttcctgggt	1080

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45      attgttttag cctgatagg cgctattttc ctcttggttt tgtatttgaa ccgcaagggg 1140
46      ataaaaaagt ggatgcataa catcagagat gcctgcaggg atcacatgga aggggtatcat 1200
47      tacagatatg aaatcaatgc ggaccccaga ttaacaaacc tcagttctaa ctcggatgtc 1260
48      tga 1263
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 1281
52 <212> TYPE: DNA
53 <213> ORGANISM: Mus musculus
54 <400> SEQUENCE: 2
55      atgcctgggg cgggctcccg gggccctcc gccggggacg gacggctgag gttggcaagg 60
56      ctggcgctag tgctgctggg ttgggtctcc gcgtcggccc ccagctcttc ggtaccctcg 120
57      tcttccacct ccccggcaga ctctctggcc tcggggctctg cgcagcctcc gccagccgag 180
58      agatgccccg cggcgtgcga gtgctccgag gcggcgcgca cggttaagtg cgtgaaccgc 240
59      aacctgctgg aggtgccggc ggatctaccg ccttacgtgc gcaacctttt ccttacccgc 300
60      aaccagatga ccgtgctccc cgcggggcgc ttgcggcgcc agccgccgct cgcgcacctg 360
61      gaggcgctca acctcagcgg caaccacctg aaggaggtgt gtgcaggtgc cttcgagcat 420
62      ctgcggggtc tgcgcgggct tgacctcagc cacaaccctc tcaccaacct cagcgccttc 480
63      gtctttgcgg gcagcaacgc cagcgtctcg gccccagcc ccctggagga gctgatcctg 540
64      aatcacatcg tgccccctga ggatcagagg cagaacggga gcttcgaggg tatgggtggc 600
65      ttcaaggca tgggtggcagc agctctgcgc tcaggccttg cactccgagg tcttacacgc 660
66      ctggagctag ccagcaatca ctttcttttc ctgcctcggg acttactagc ccaactgccg 720
67      agtctcagat acctggacct caggaacaat tccttggtga gcctgacct cgcctcttc 780
68      cgcaacctga cacacctga aagcctccac ttggaggaca atgccctcaa ggtccttcac 840
69      aactccacct tggctgagtg gcaaggcctg gctcatgtca aggtgttcct ggacaacaat 900
70      ccctgggttt gcgactgcta catggctgac atgggtggctt ggcttaaaga gacagaggtg 960
71      gtgccagata aagccaggct tacctgcgca ttcccggaga agatgaggaa tcgtggcctc 1020
72      ttagacctca acagctctga cctggactgt gacgctgtcc ttccccaatc cctgcagact 1080
73      tcctatgtct tcctaggtat tgttttagct ctgataggcg ctattttcct cctcgttttg 1140
74      tatttgaacc gtaaaggcat aaaaaagtgg atgcataaca tcagagatgc ctgcagggat 1200
75      cacatggaag ggtatcatta cagatacgaa atcaatgcgg accccagatt aacaaatctt 1260
76      agttccaact cggatgtctg a 1281
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 901
80 <212> TYPE: DNA
81 <213> ORGANISM: Canis sp.
82 <220> FEATURE:
83 <221> NAME/KEY: modified_base
84 <222> LOCATION: (66)
85 <223> OTHER INFORMATION: a, c, g or t
86 <221> NAME/KEY: modified_base
87 <222> LOCATION: (145)
88 <223> OTHER INFORMATION: a, c, g or t
W--> 89 <221> modified_base
90 <222> LOCATION: (277)..(278)
91 <223> OTHER INFORMATION: a, c, g or t
W--> 92 <221> modified_base
93 <222> LOCATION: (287)
94 <223> OTHER INFORMATION: a, c, g or t
W--> 95 <221> modified_base

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96 <222> LOCATION: (353)
97 <223> OTHER INFORMATION: a, c, g or t
W--> 98 <221> modified_base
99 <222> LOCATION: (358)
100 <223> OTHER INFORMATION: a, c, g or t
W--> 101 <221> modified_base
102 <222> LOCATION: (428)..(429)
103 <223> OTHER INFORMATION: a, c, g or t
W--> 104 <221> modified_base
105 <222> LOCATION: (577)
106 <223> OTHER INFORMATION: a, c, g or t
W--> 107 <221> modified_base
108 <222> LOCATION: (580)
109 <223> OTHER INFORMATION: a, c, g or t
W--> 110 <221> modified_base
111 <222> LOCATION: (719)
112 <223> OTHER INFORMATION: a, c, g or t
W--> 113 <221> modified_base
114 <222> LOCATION: (788)
115 <223> OTHER INFORMATION: a, c, g or t
W--> 116 <221> modified_base
117 <222> LOCATION: (863)
118 <223> OTHER INFORMATION: a, c, g or t
W--> 119 <221> modified_base
120 <222> LOCATION: (868)
121 <223> OTHER INFORMATION: a, c, g or t
W--> 122 <221> modified_base
123 <222> LOCATION: (871)
124 <223> OTHER INFORMATION: a, c, g or t
W--> 125 <400> 3
126 atcgtgcccc ccgacgaccg gcggcagaac cggagcttcg aggtcatggt ggcggtgccc 60
W--> 127 vddrrnrsvm vaaactccga gcgggcccgc cgcttcgcgg gctgcagtgc ctggagctgg 120
128 ccggcaaccg cttcragrar gcagnrctct acttgccctg cgacgtcctg gccagctac 180
129 ccggcctccg gcacctggac ctgcgcyr dv agrhdraaca attccctggt gagcctcacc 240
130 tacgtgtcct tccgcaacct gacgcacttg gagagcnnsv styvsrnths ctccacctgg 300
131 aggacaacgc cctcaaggtc cttcacaacg ccaccctggc ggagctgcag hdnakvhnat 360
132 aagcctgccc cagtcctggg tcttctgga caacaacccc tgggtctgcg attgtcacat 420
133 gshrvrdnnw vcdhmgcag acatggtggc ctggctcaag gagacagagg tgggtgccggg 480
134 caaagccggg ctcaccadm v awktvvgkag ttgtgcattc ccggagaaaa tgaggaatcg 540
135 ggccctcttg gaactcaaca gctcccacct gcakmrnran sshgactgtg accctatcct 600
136 cctccatcc ctgcagactt cttatgtctt cctaggtatt gtcdddstsy vgvttagccc 660
137 tgataggcgc catcttctta ctggttttgt atttgaaccg caaggggata aagagavynr 720
138 kgkaagtggg tgcataacat cagagatgcc tgcagggatc acatggaagg gtatcactac 780
139 agakwmhnr d acrdhmg yhy rtacgaaatc aatgcagacc ccaggttaac aaacctcagt 840
140 tccaattcgg atgtctgaga aynadrtnss nsdvacagtc ggggacagac caaggacaac 900
141 t 901
143 <210> SEQ ID NO: 4
144 <211> LENGTH: 238
145 <212> TYPE: PRT

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```

146 <213> ORGANISM: Canis sp.
147 <400> SEQUENCE: 4
148   Ile Val Pro Pro Asp Asp Arg Arg Gln Asn Arg Ser Phe Glu Val Met
149   1          5          10          15
150   Val Ala Ala Ala Leu Arg Ala Gly Arg Ala Leu Arg Gly Leu Gln Cys
151   20          25          30
152   Leu Glu Leu Ala Gly Asn Arg Phe Leu Tyr Leu Pro Arg Asp Val Leu
153   35          40          45
154   Ala Gln Leu Pro Gly Leu Arg His Leu Asp Leu Arg Asn Asn Ser Leu
155   50          55          60
156   Val Ser Leu Thr Tyr Val Ser Phe Arg Asn Leu Thr His Leu Glu Ser
157   65          70          75          80
158   Leu His Leu Glu Asp Asn Ala Leu Lys Val Leu His Asn Ala Thr Leu
159   85          90          95
160   Ala Glu Leu Gln Ser Leu Pro His Val Arg Val Phe Leu Asp Asn Asn
161   100         105         110
162   Pro Trp Val Cys Asp Cys His Met Ala Asp Met Val Ala Trp Leu Lys
163   115         120         125
164   Glu Thr Glu Val Val Pro Gly Lys Ala Gly Leu Thr Cys Ala Phe Pro
165   130         135         140
166   Glu Lys Met Arg Asn Arg Ala Leu Leu Glu Leu Asn Ser Ser His Leu
167   145         150         155         160
168   Asp Cys Asp Pro Ile Leu Pro Pro Ser Leu Gln Thr Ser Tyr Val Phe
169   165         170         175
170   Leu Gly Ile Val Leu Ala Leu Ile Gly Ala Ile Phe Leu Leu Val Leu
171   180         185         190
172   Tyr Leu Asn Arg Lys Gly Ile Lys Lys Trp Met His Asn Ile Arg Asp
173   195         200         205
174   Ala Cys Arg Asp His Met Glu Gly Tyr His Tyr Arg Tyr Glu Ile Asn
175   210         215         220
176   Ala Asp Pro Arg Leu Thr Asn Leu Ser Ser Asn Ser Asp Val
177   225         230         235
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 9
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
185 <400> SEQUENCE: 5
186   Phe Leu Thr Gly Asn Gln Leu Ala Val
187   1          5
189 <210> SEQ ID NO: 6
190 <211> LENGTH: 9
191 <212> TYPE: PRT
192 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
195 <400> SEQUENCE: 6
196   Ala Leu Ile Gly Ala Ile Phe Leu Leu

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197      1      5
199 <210> SEQ ID NO: 7
200 <211> LENGTH: 9
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
205 <400> SEQUENCE: 7
206      Ser Leu Gln Thr Ser Tyr Val Phe Leu
207      1      5
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 9
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
215 <400> SEQUENCE: 8
216      Ala Ile Phe Leu Leu Val Leu Tyr Leu
217      1      5
219 <210> SEQ ID NO: 9
220 <211> LENGTH: 9
221 <212> TYPE: PRT
222 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
225 <400> SEQUENCE: 9
226      Gly Leu Pro His Ile Arg Val Phe Leu
227      1      5
229 <210> SEQ ID NO: 10
230 <211> LENGTH: 9
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
235 <400> SEQUENCE: 10
236      Phe Leu Gly Ile Val Leu Ala Leu Ile
237      1      5
239 <210> SEQ ID NO: 11
240 <211> LENGTH: 9
241 <212> TYPE: PRT
242 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence: 5T4 9 Mer
245 <400> SEQUENCE: 11
246      Asn Leu Thr Glu Val Pro Thr Asp Leu
247      1      5
249 <210> SEQ ID NO: 12
250 <211> LENGTH: 9
251 <212> TYPE: PRT

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : N:\Crf3\RULE60\10774176.raw  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 66,145,277,278,287,353,358,428,429,577,580,719,788,863,868  
Seq#:3; N Pos. 871

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/774,176**

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Input Set : **N:\Crf3\RULE60\10774176.raw**Output Set: **N:\CRF4\09162004\J774176.raw**

L:89 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:92 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:95 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:98 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:104 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:107 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:110 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:113 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:119 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:122 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:125 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60  
M:341 Repeated in SeqNo=3